

Name _____

Mixing Water and Alcohol
Lab 14.1

1. Complete Table 1

Table 1: Predictions and Results for Lab 14.1

Liquid	Volume of Liquids (mL)	Mass of Liquids and Cylinders (g)
Water		
Alcohol		
Predictions (water + alcohol)		
Actual (water + alcohol)		
Differences		

2. What type of mixture was formed when you mixed the water and the ethyl alcohol? _____

3. What happened to the volume?

*The volume of the solution is _____
the volume of the water + the volume of the alcohol.*

4. What happened to the mass?

*The mass of the solution is _____
the mass of the water + the mass of the alcohol.*

5. What conclusions can you reach from this part of the lab?

*The volume of the solution is _____
the volume of the solute + the volume of the solvent.*

*The mass of the solution is _____
the mass of the solute + the mass of the solvent.*

Name _____

Mixing Water and Salt
Lab 14.2

1. Write the procedure for determining what happens to the mass of a solute and solvent when combined in solution below.

2. Record your results. Be sure to include units!

Starting Mass	
Final Mass	
Change in Mass	
Overall Change in Mass According to Class Data	

3. According to the class data, what happens to the mass of the solute and solvent when they are dissolved in a solution?

4. How could you predict the mass of a solution if you know the mass of the solute and the mass of the solvent?